

# PASSENGER PROTECTION

## FREE MOTION HEAD



### YOUR GLOBAL MOBILITY ENGINEERING EXPERTS

We have expanded our scope within passive safety needs. It is important for us to continue providing car occupants with an increasingly safer path.

Our newest area provides us with extremely important data to improve all the superior elements of the interior of a vehicle that are involved in a rollover that could impact the occupant's head.

EDAG Engineering GmbH in Ingolstadt, has years of experience in developing Free Motion Head tests under the Federal Motor Vehicle Safety Standards, this knowledge has been transferred to us in EDAG TestLab Mexico, where it is possible to perform tests with the Free Motion Headform (Hybrid III type dummy head) launched by a robot arm accelerator from inside the vehicle.

The FMH is designed to accommodate in its interior accelerometers that provide data during the impact. The dummy travels freely through the air, propelled by the accelerator on the robot arm, so that its forehead strikes the selected target component (e.g. pillar, vehicle roof, handgrips, etc). These measurements are used to calculate specified Head Injury Criterion (HIC).

#### Overview of our services:

- Digital Humanetics Head Forms
- IDT High Speed Camera System up to 4000 FPS
- Internal Drop testing verification
- MME data files
- All FMVSS 201U and ISO/IEC 17025 requirement regulations covered
- Target locations (Faro Arm system)
- Kuka positioning system
- Frontone FMH launcher
- Glass Head for for positioning

**We have the right test facility  
for almost everything**

#### Contact:

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